

isobutyryl
 75%

25

Pyridine-Borane, PPTS
 MeOH, 90%

25

26

Trifluoroacetic anhydride
 Room Temperature, 70%

27

Figure 2

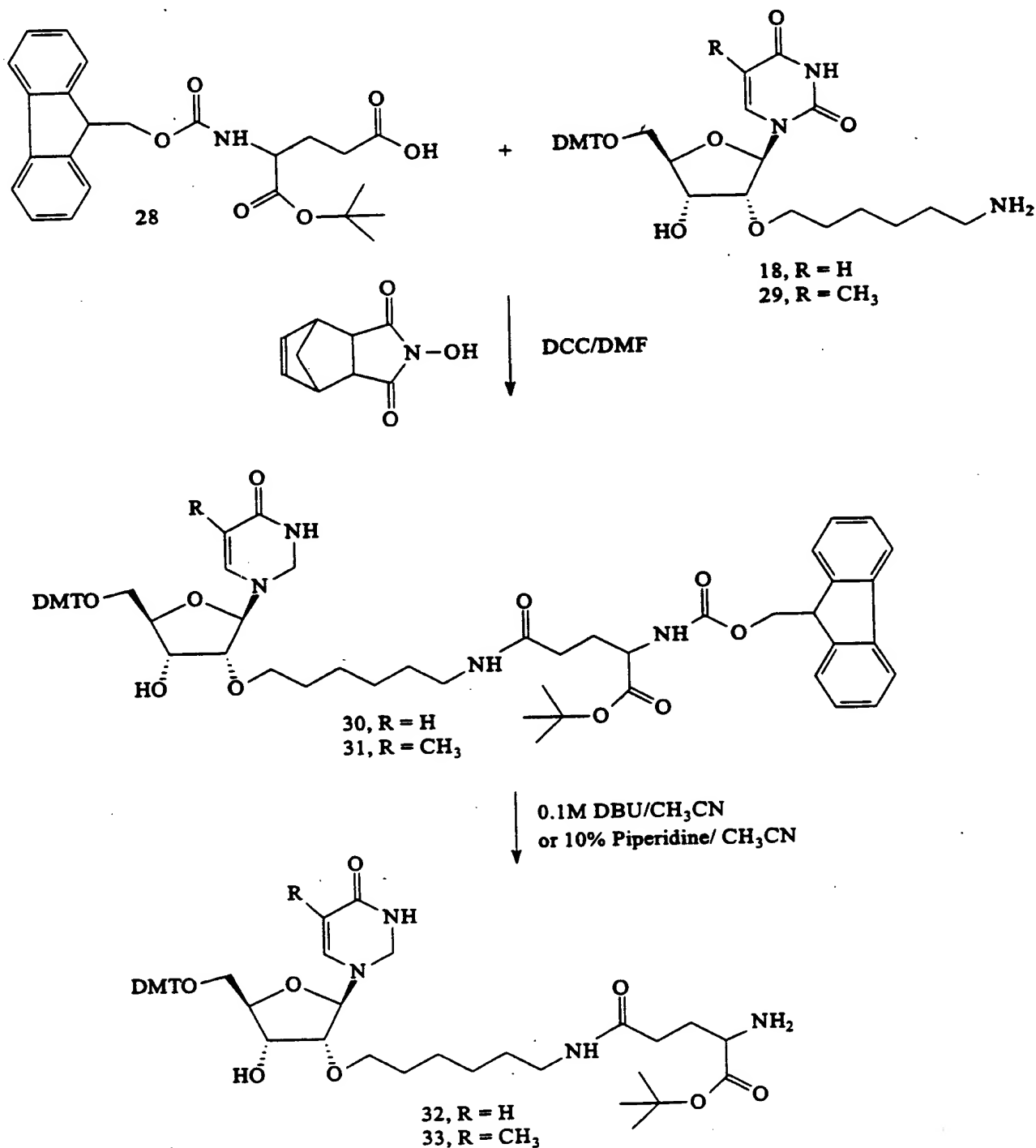


Figure 3

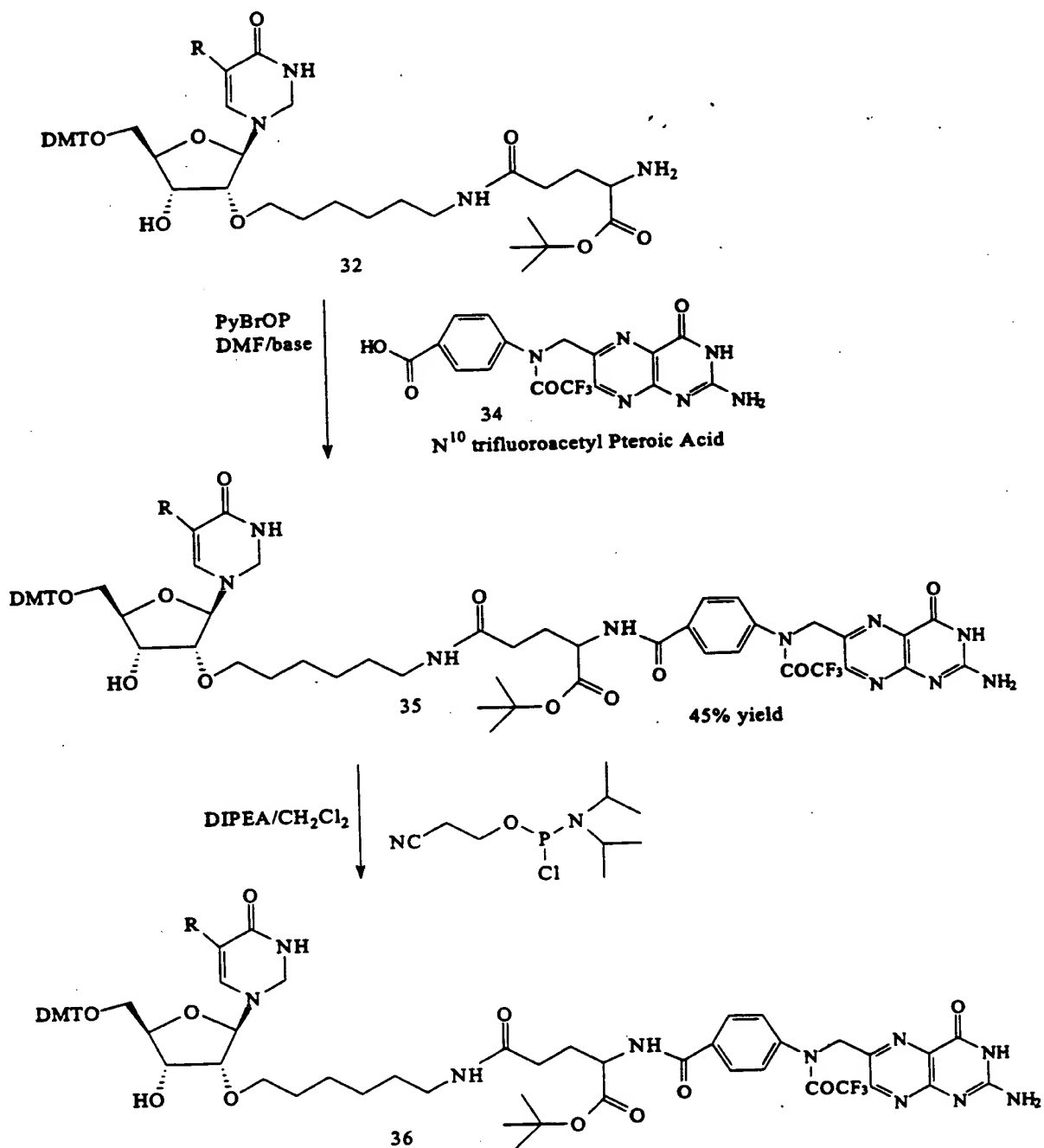


Figure 4

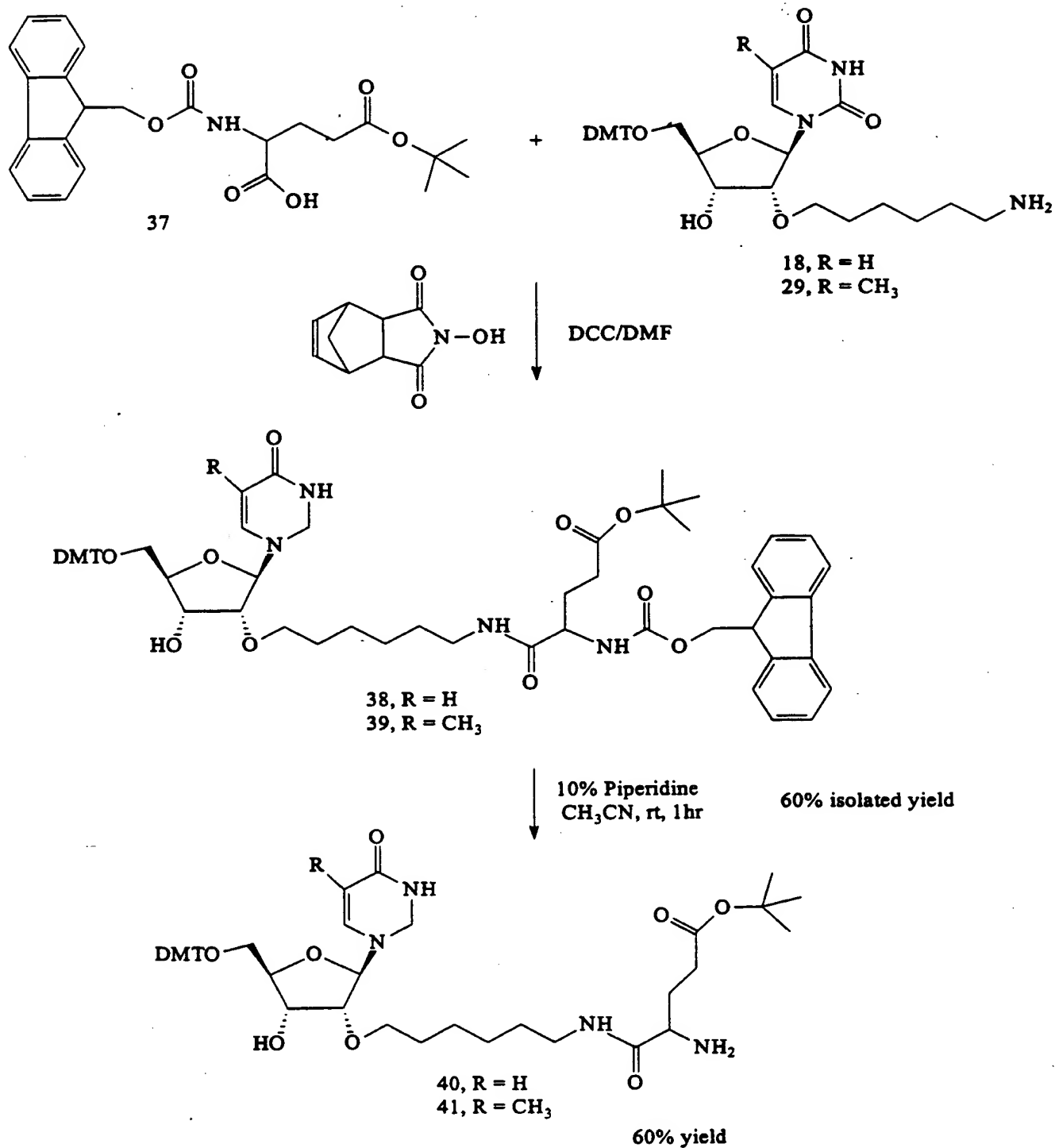


Figure 5

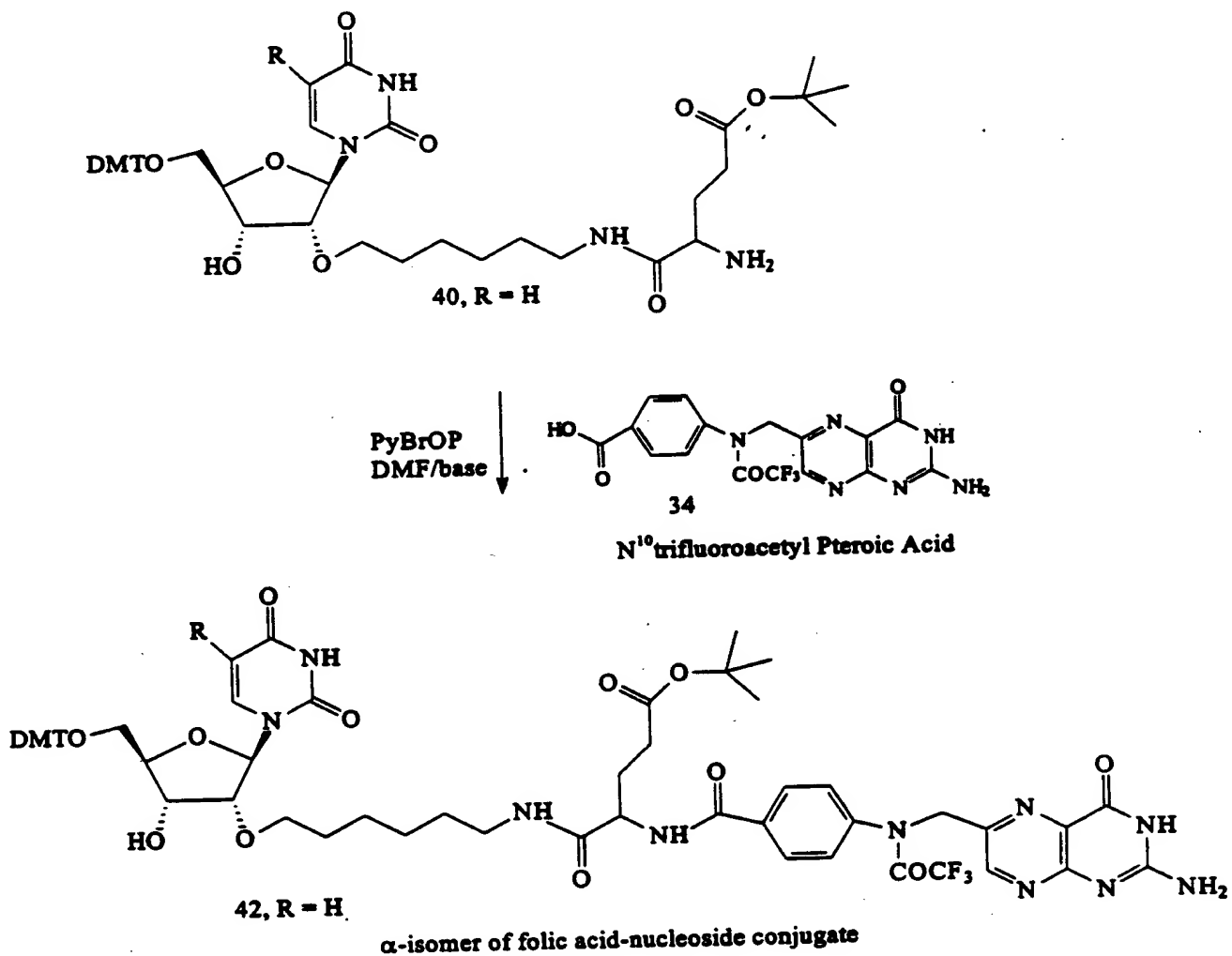


Figure 6

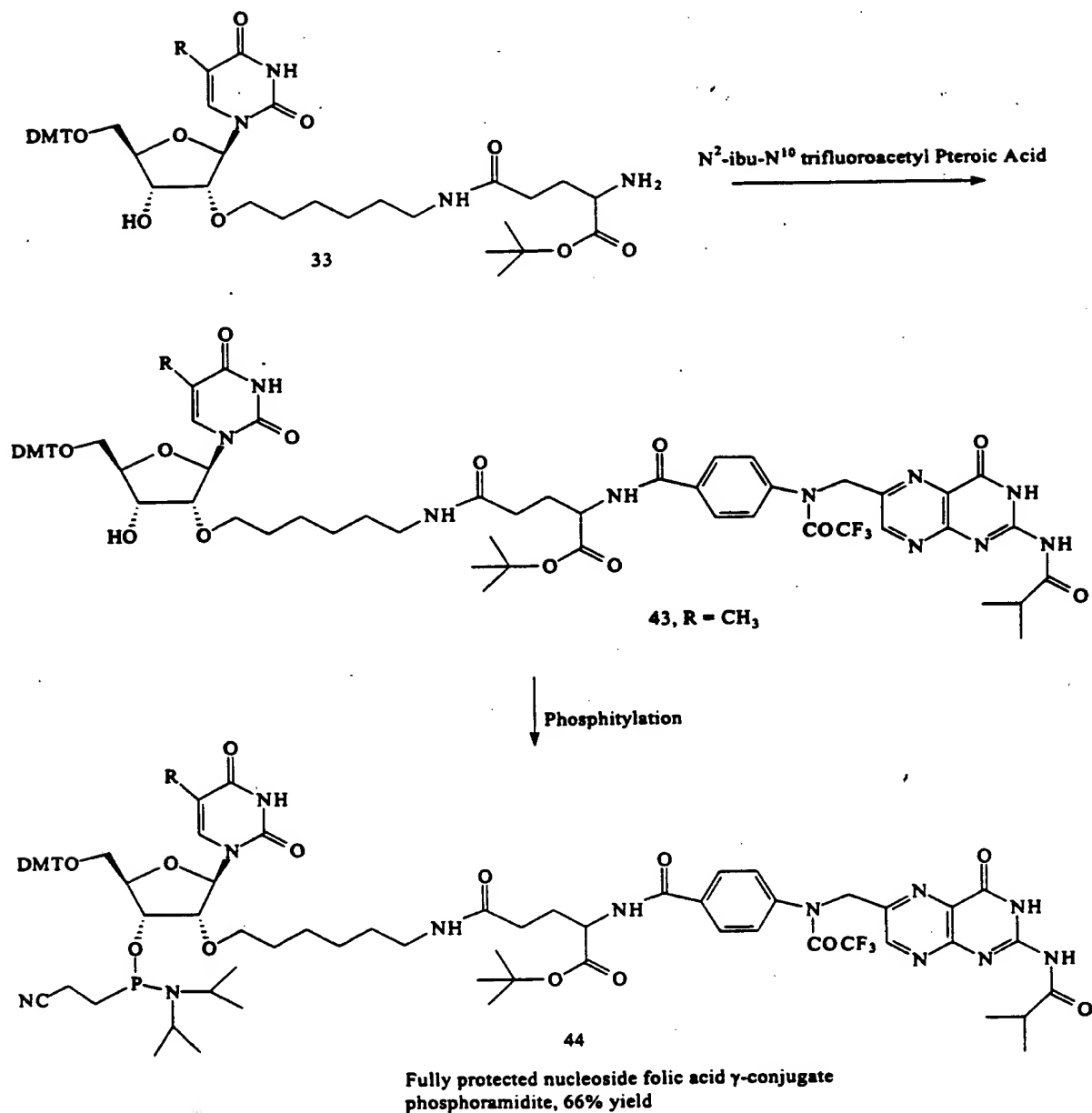


Figure 7

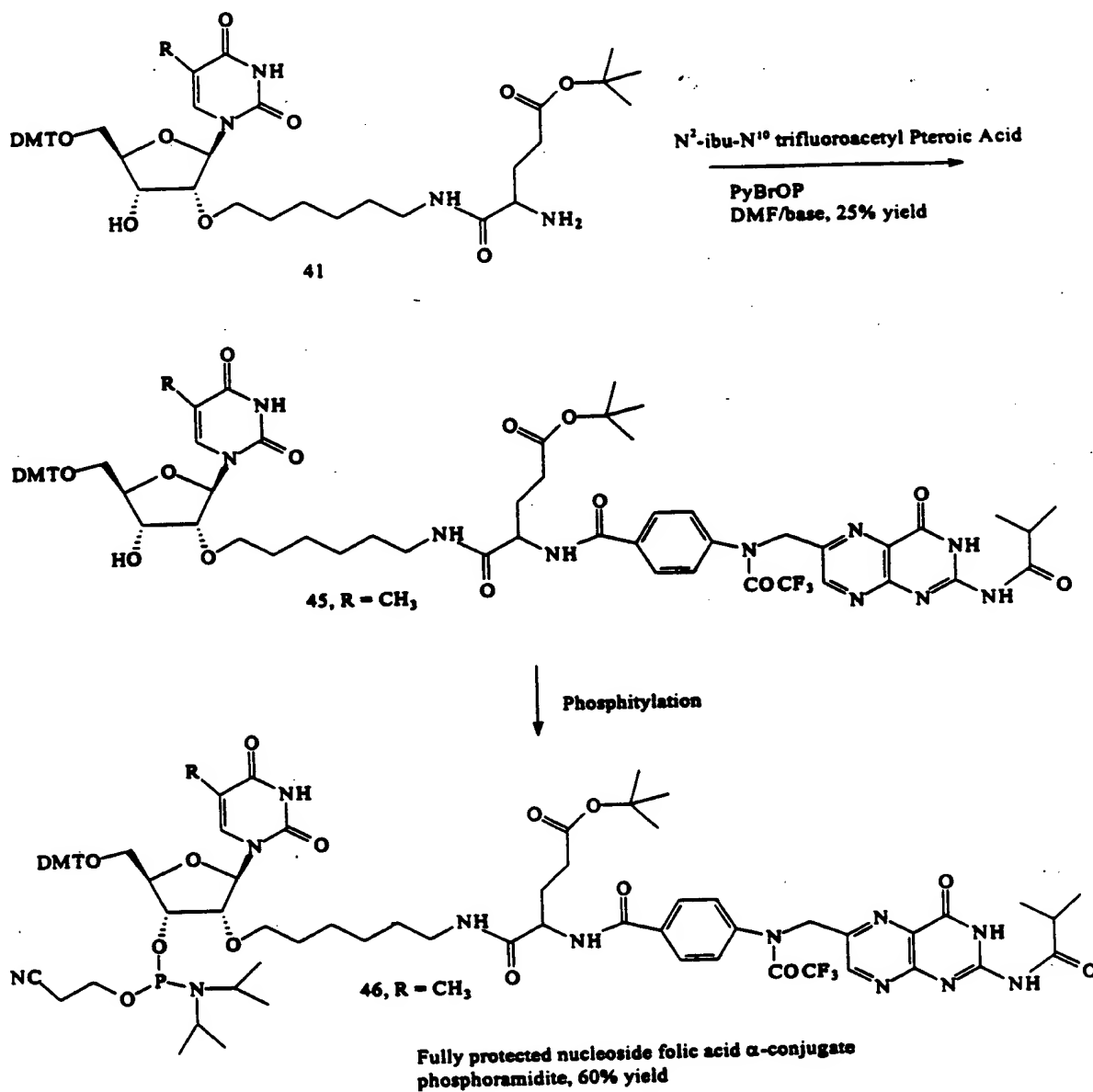


Figure 8a

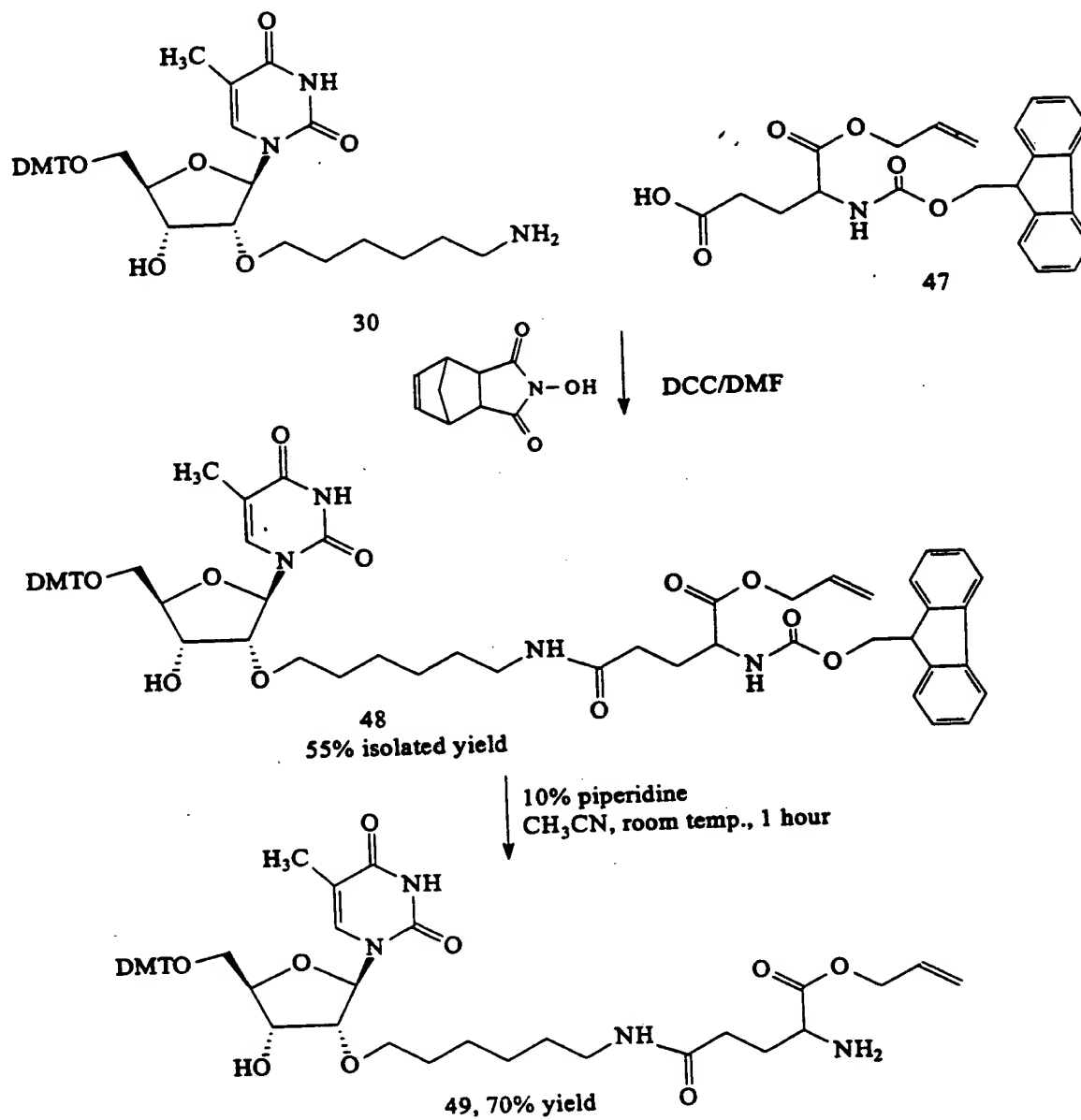


Figure 8b

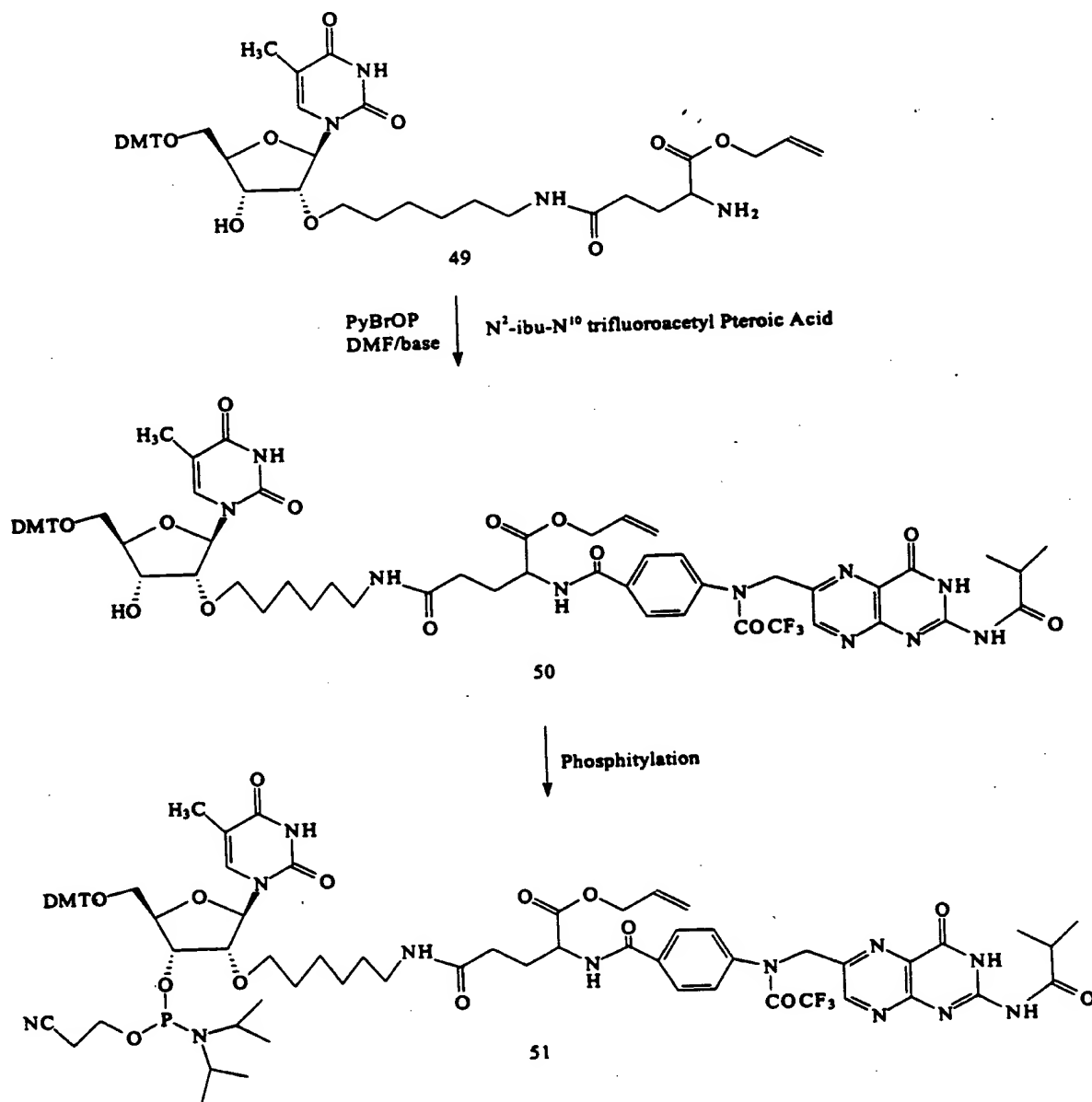


Figure 9

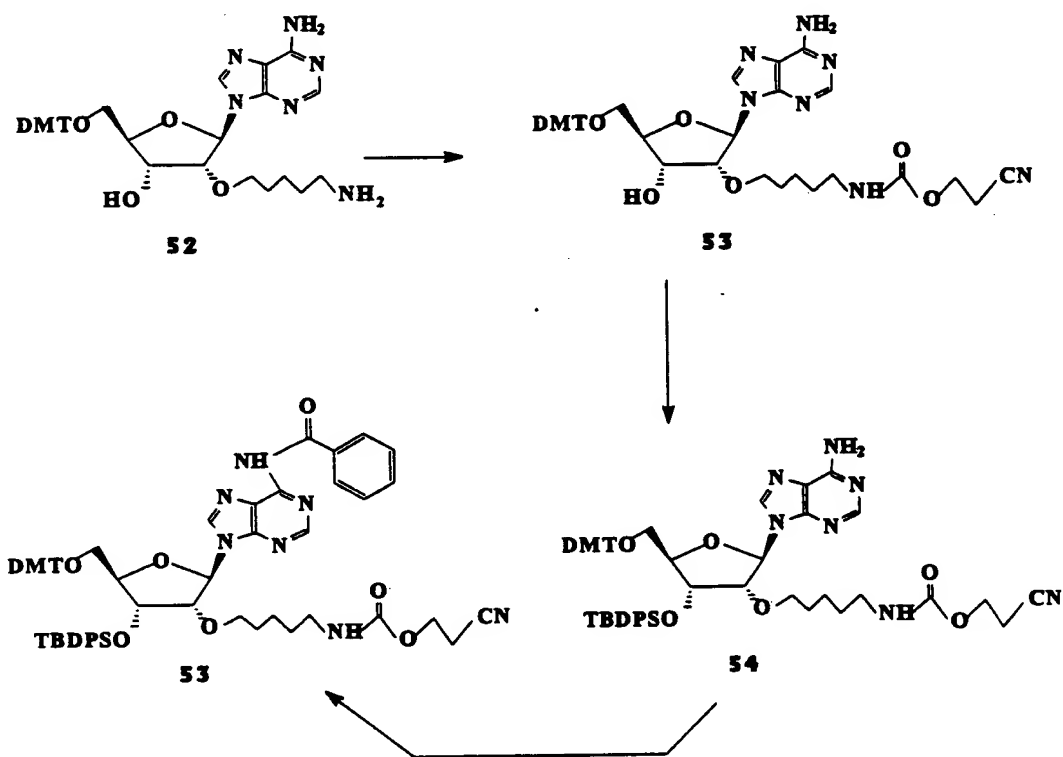


Figure 10

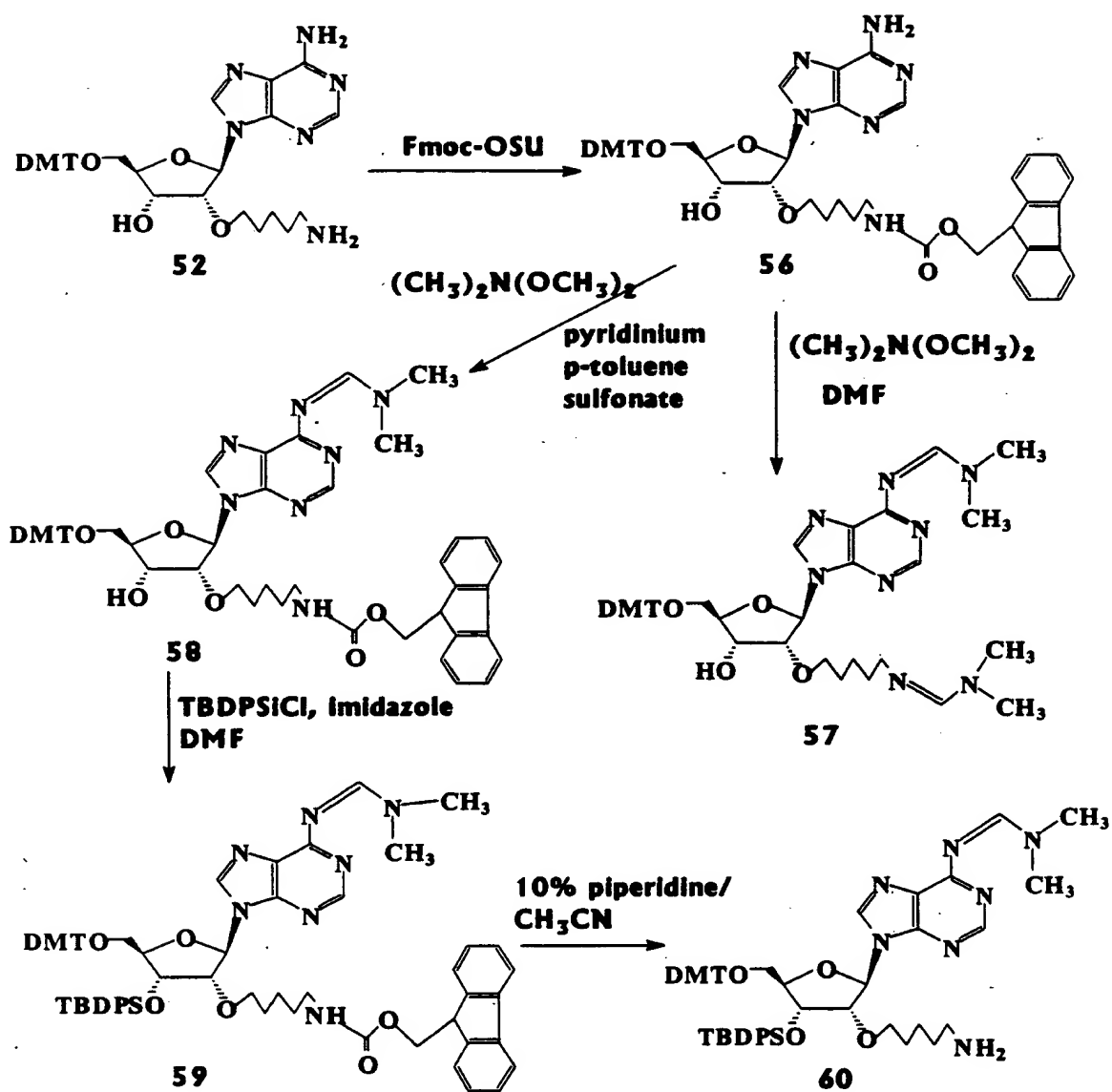


Figure 11

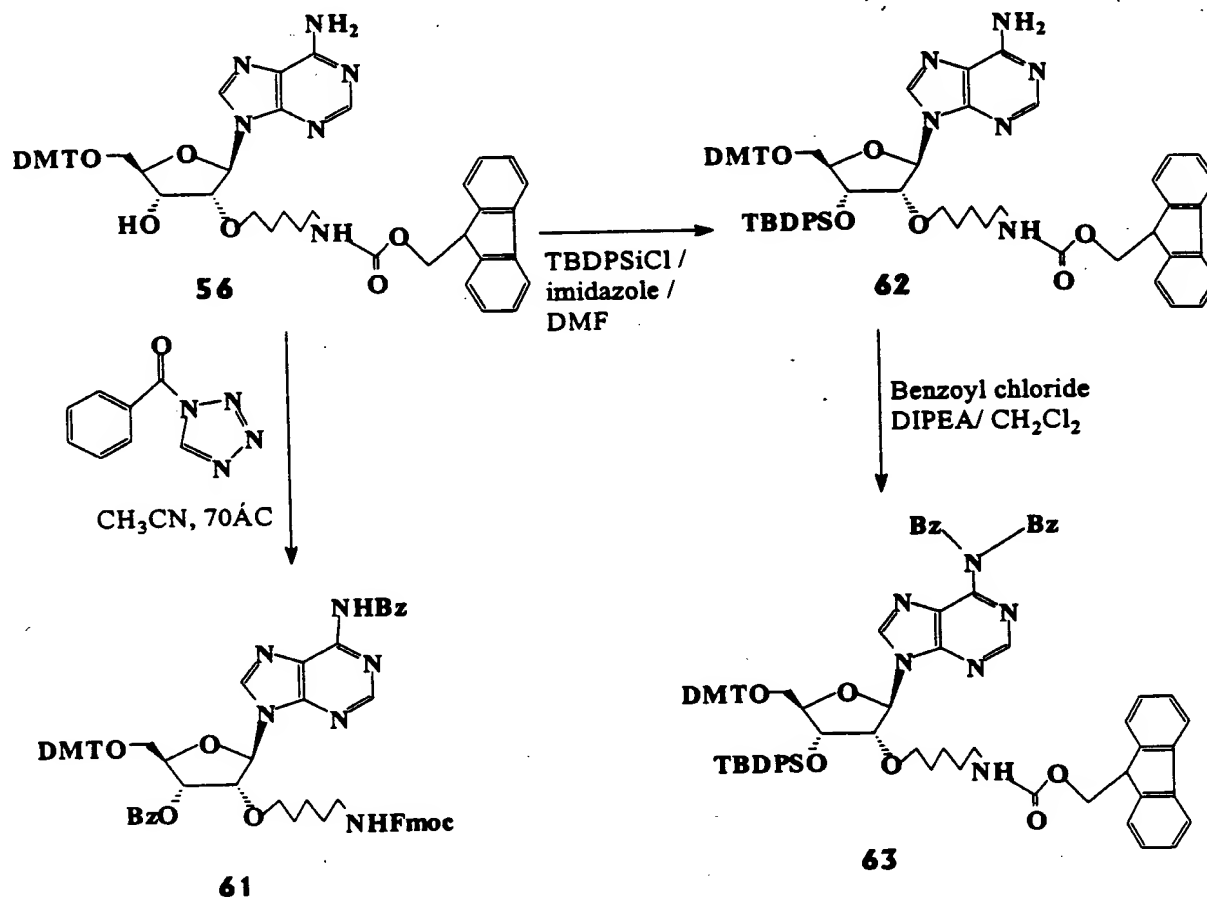


Figure 12

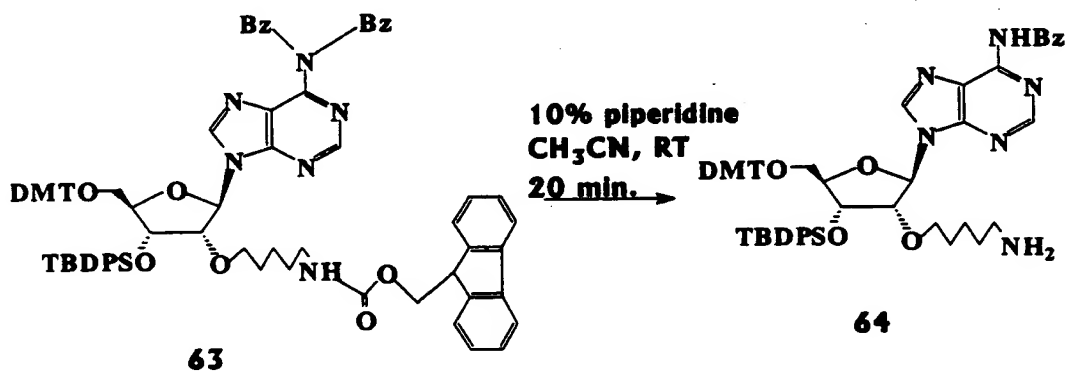


Figure 13

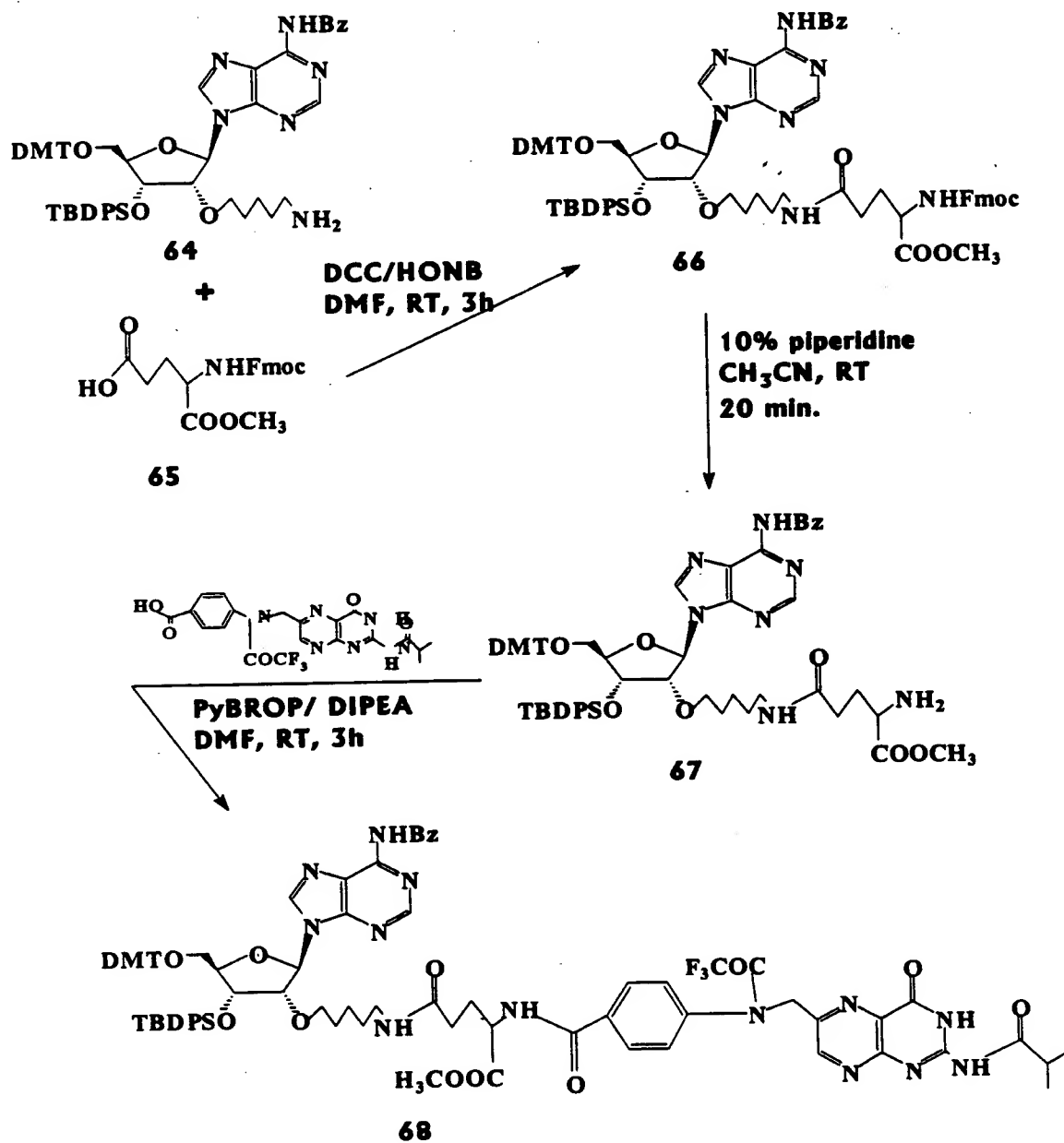


Figure 14

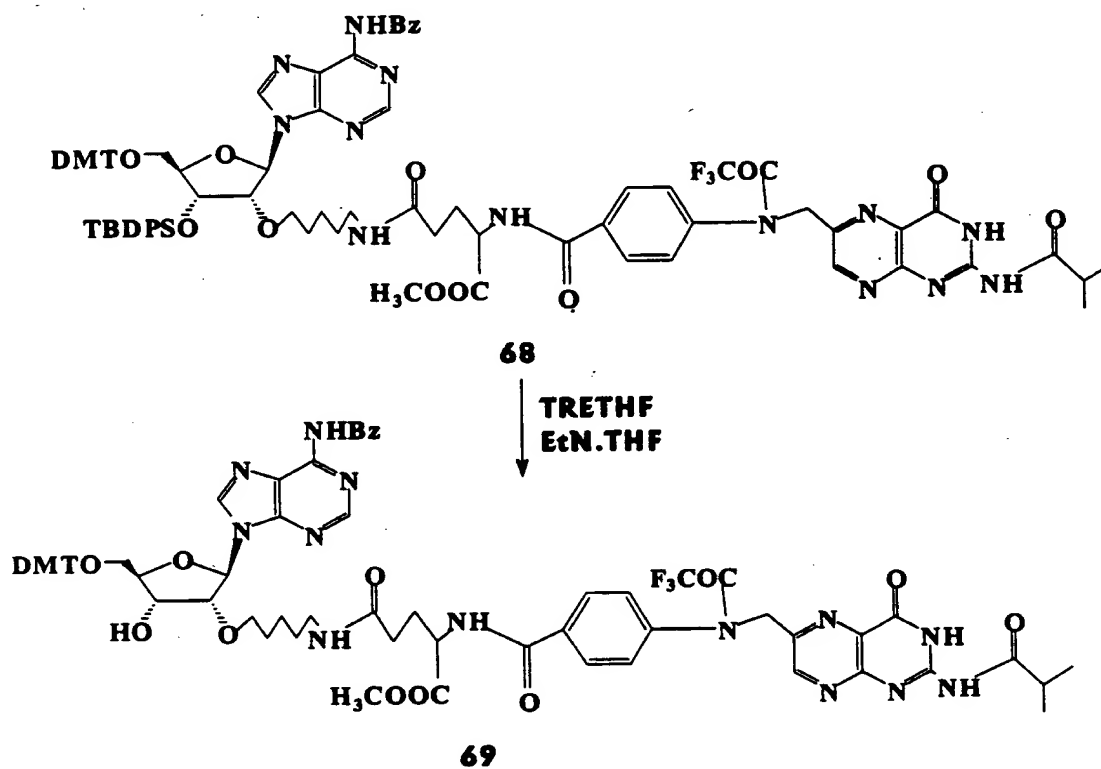


Figure 15

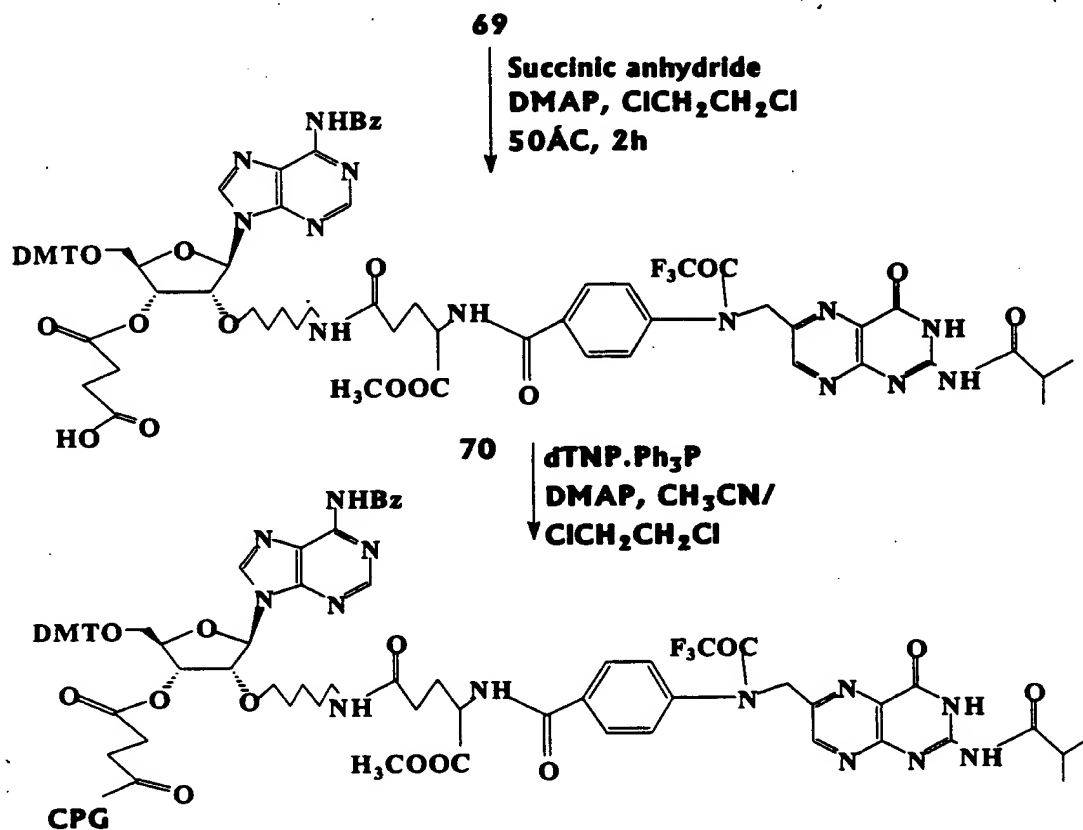


Figure 16

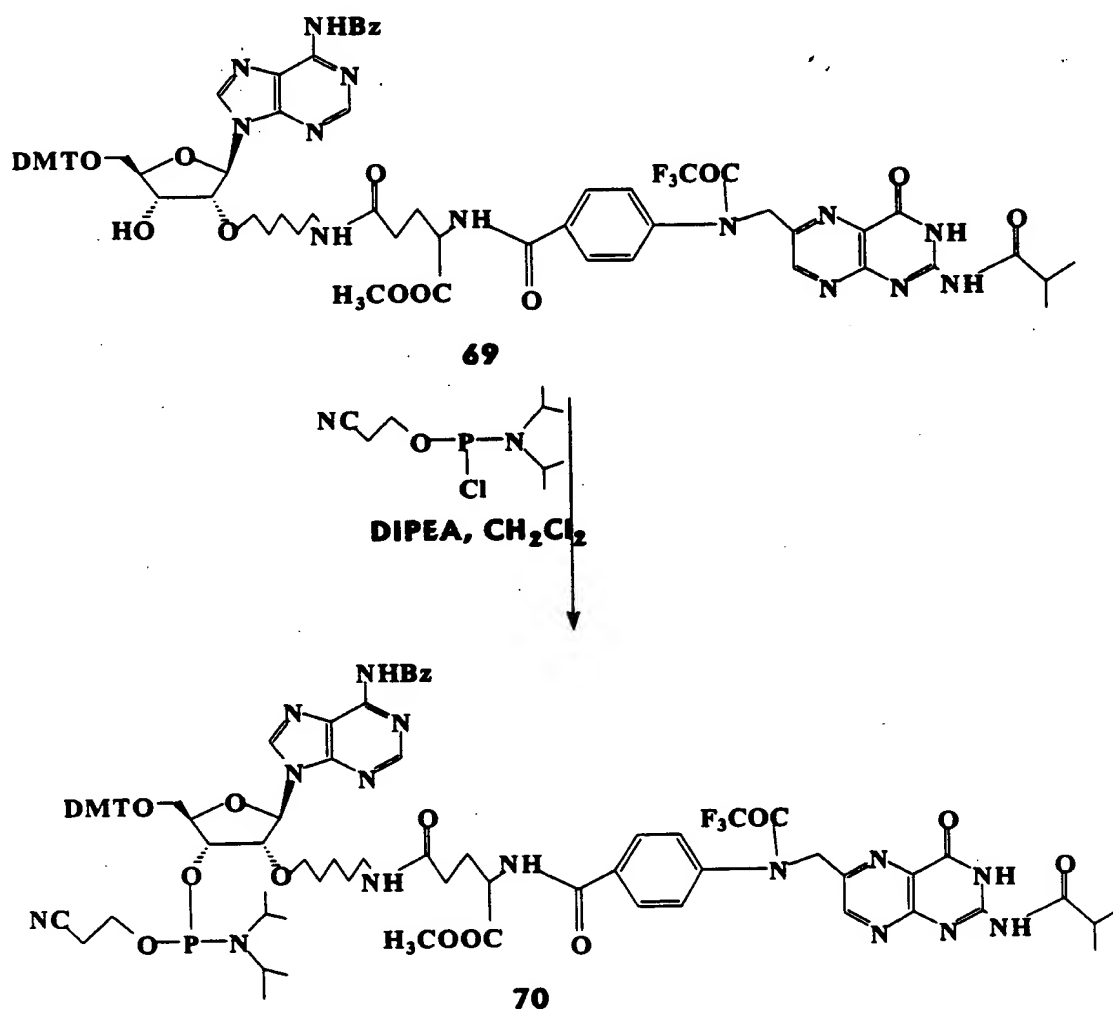


Figure 17

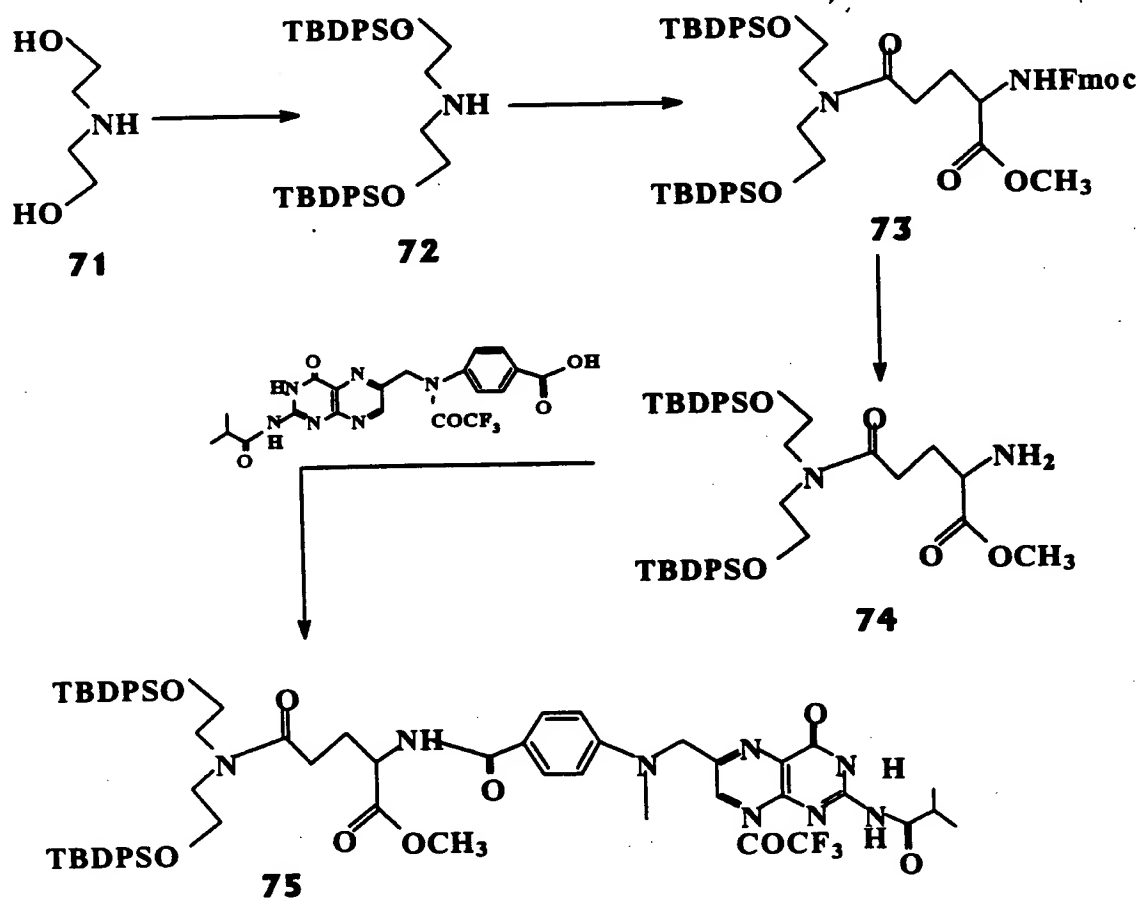


Figure 18

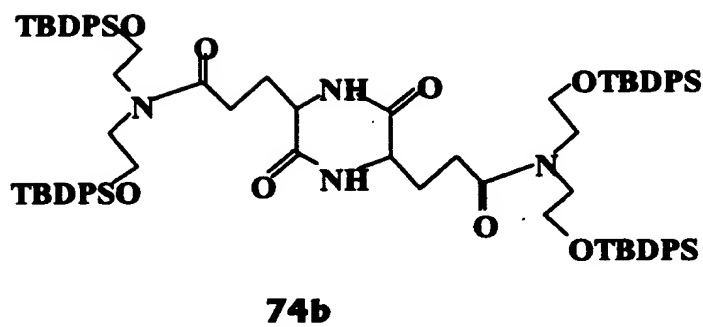


Figure 19

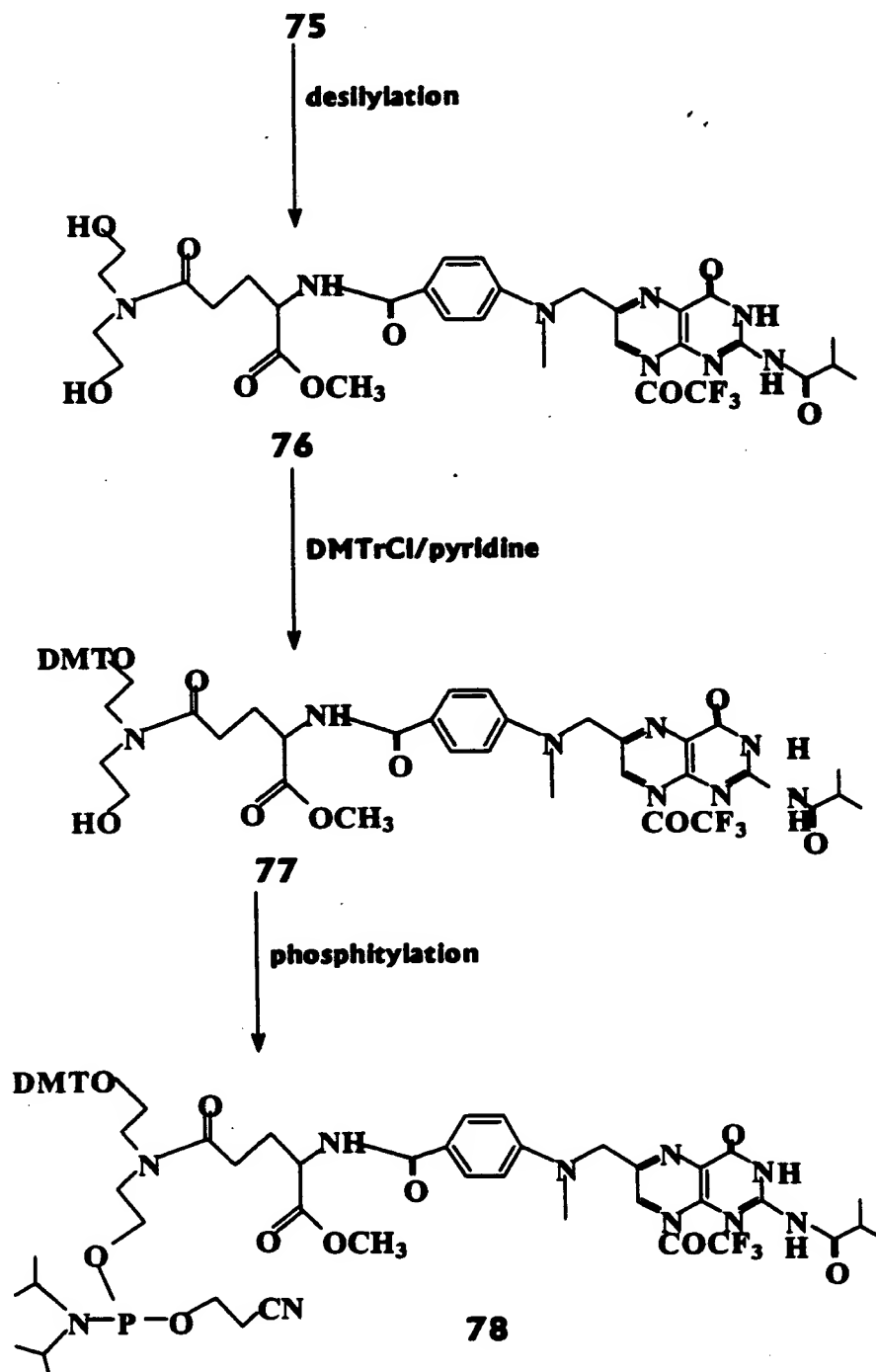


Figure 20

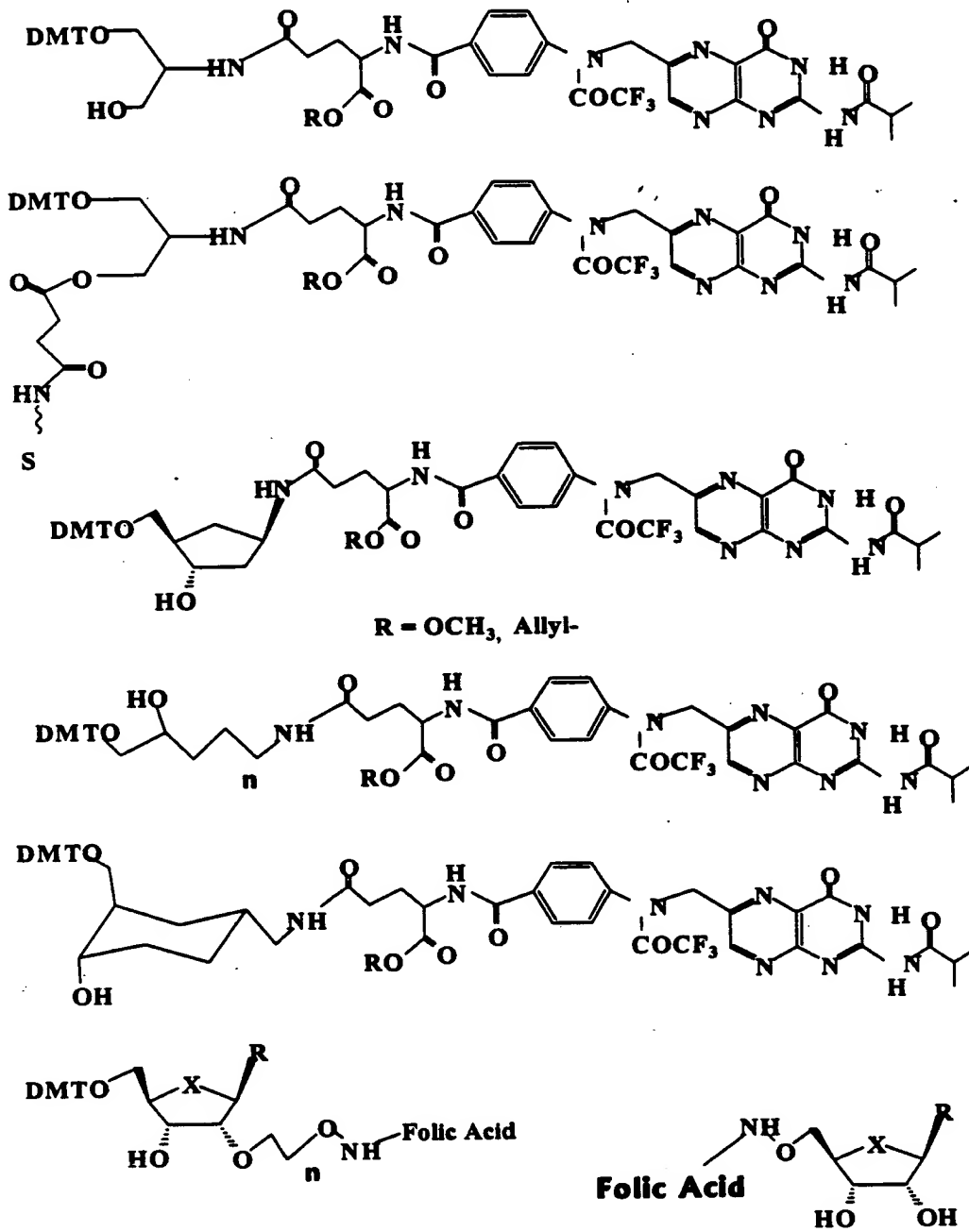
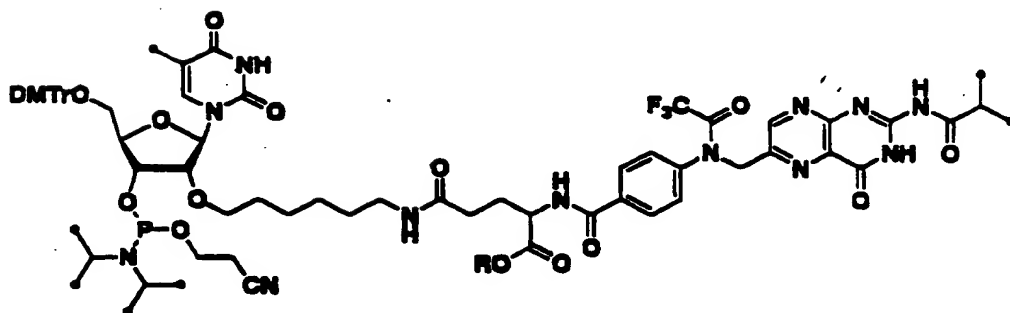


Figure 21



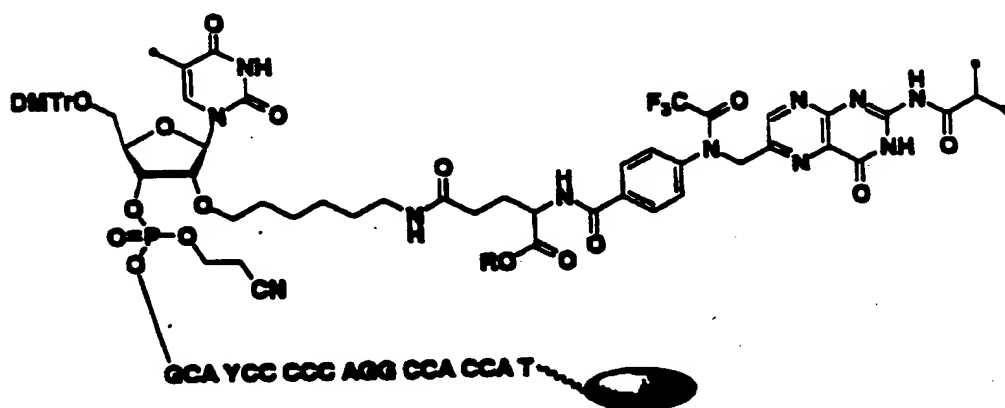
79a **R=Me**

79b R=Allyl

a: P=0 backbone

b: P=S backbone

Figure 22

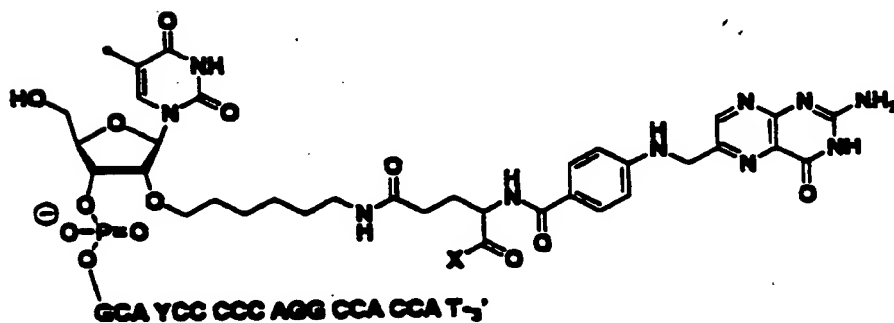


80a,b R=Me; Y=T
81b R=Me; Y=[4,6-¹⁴C]-T

82a,b R=Allyl; Y=T

a; P=O backbone
b; P=S backbone

Figure 23



- 83a,b X=OH; Y=T
84b X=OH; Y=[4,6,-¹⁴C]-T
85a X=NH₂; Y=T
86a X=CH₃NH; Y=T
a: P=O backbone
b: P=S backbone